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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,690		02/09/2006 Toshiaki Shimada		740819-1134	2402	
78198 7590 05/07/2009		EXAMINER				
Studebaker	& Brackett	t PC	LUO, DA	LUO, DAVID S		
1890 Preston				ART UNIT	PAPER NUMBER	
Suite 105 Reston, VA	20191			2837 DATE MAILED: 05/07/2009	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 589 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 589 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

78198

7590

05/07/2009

Studebaker & Brackett PC 1890 Preston White Drive Suite 105 Reston, VA 20191

EXA	MINER					
LUO,	LUO, DAVID S					
ART UNIT	PAPER NUMBER					
2837						

DATE MAILED: 05/07/2009

İ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/567,690	02/09/2006	Toshiaki Shimada	740819-1134	2402

TITLE OF INVENTION: ELECTRIC CYLINDER

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
_	nonprovisional	YES	\$755	\$300	\$0	\$1055	08/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Reston, VA 201	91					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO	O. CONFIRMATION NO.	
10/567,690	02/09/2006		Toshiaki Shimada		740819-1134	2402	
TITLE OF INVENTION	I: ELECTRIC CYLINDI	ER					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	JE FEE TOTAL FEE(S) D	DUE DATE DUE	
nonprovisional	YES	\$755	\$300	\$0	\$1055	08/07/2009	
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_ ′	oondence address (or Cha B/122) attached.	ange of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
"Fee Address" ind	lication (or "Fee Address 20 or more recent) attach	" Indication form	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	/pe)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the of a substitute for filing ar	patent. If an assign	nee is identified below, the	e document has been filed for	
(A) NAME OF ASSI			(B) RESIDENCE: (CIT	=	COUNTRY)		
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Please check the appropr	iate assignee category or	categories (will not be p	printed on the patent) :	Individual 🗆 C	orporation or other private	group entity Government	
4a. The following fee(s)	are submitted:	4		ase first reapply a	ny previously paid issue f	fee shown above)	
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	# of Copies		Payment by credit ca The Director is hereb	v authorized to char	rge the required fee(s), any	deficiency, or credit any	
			overpayment, to Dep	osit Account Numb	er (enclos	se an extra copy of this form).	
5. Change in Entity Sta a. Applicant claim	is SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no los	nger claiming SMA	LL ENTITY status. See 37	7 CFR 1.27(a)(2)	
NOTE: The Issue Fee an	d Publication Fee (if reg		ed from anyone other than			or the assignee or other party in	
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	Application No.	Applicant(s)
	10/567,690	SHIMADA, TOSHIAKI
Notice of Allowability	Examiner	Art Unit
· · · · · · · · · · · · · · · · · · ·	DAVID S. LUO	2837
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \square This communication is responsive to $02/11/2009$.		
2. ☑ The allowed claim(s) is/are <u>1,2 and 5-10</u> .		
 Acknowledgment is made of a claim for foreign priority ur a)	e been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER bes reason(s) why the oath or declaration.	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date	· ·	,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te
/BENTSU RO/ Primary Examiner, Art Unit 2837		

Continuation Sheet (PTOL-37)

Application No. 10/567,690

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 02/09/2006, 01/30/2008.

Art Unit: 2837

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-2, 5-10 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

 The art of record does not suggest the respective claim combinations together and the respective claim combinations are not obvious:

As per independent claim 1: An electric cylinder has a first thread nut and a second thread nut, the first thread nut being a ball thread nut in which a thread groove in an arc shape in section is formed and second thread nut being a non-ball thread nut which is rotatable in synchronization with the ball thread nut and in which a thread groove in a rectangular or trapezoidal shape in section is formed. The electric cylinder distinguishes over prior art references especially for the following points: when load working in the axial direction on the thread rod is less than a predetermined value, a thread ridge of the non-ball thread nut and a thread ridge of the thread rod are separated and are out of contact with each other so that the thread rod is moved in the axial direction thereof by only the ball thread nut, and when the load working in the axial direction on the thread rod exceeds the predetermined value, the thread ridge of the non-ball thread nut and the thread ridge of the thread rod are made in contact with each other so that the thread rod is moved in the axial direction thereof by the non-ball thread nut—and wherein a width of the thread ridge of the non-ball thread nut is set smaller than a width of the thread groove for the non-ball thread nut of each thread rod so that a state is controllable and exchangeable between a state that the thread ridge of the non-ball

Application/Control Number: 10/567,690

Art Unit: 2837

thread nut is separated from the thread ridge of each thread rod and a state that they are in contact with each other.

As per independent claim 2: It is the same reason as claim 1.

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USPG Pub 2005/0081660 to Migliori discloses an electric cylinder;

USPN 6,116,139 to Yuda discloses a pneumatically powered linear actuator control apparatus and method.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Luo whose telephone number is (571)270-5251. The examiner can normally be reached on M-F 9AM-6PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Benson can be reached on (571)272-2227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from

Application/Control Number: 10/567,690

Art Unit: 2837

a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Luo Art Unit 2837 /BENTSU RO/ Primary Examiner, Art Unit 2837

Page 4

Notice of References Cited Application/Control No. 10/567,690 Applicant(s)/Patent Under Reexamination SHIMADA, TOSHIAKI Examiner DAVID S. LUO 2837 Art Unit Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-6,116,139	09-2000	Yuda et al.	91/61
*	В	US-2005/0081660	04-2005	Migliori, Luciano	074/025
	С	US-			
	D	US-			
	Ε	US-			
	F	US-			
	G	US-			
	Н	US-			
	1	US-			
	J	US-			
	к	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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		NOTE A PRODUCTION
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^{*}A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Receipt date: -02/09/2006

10567690 - GAU: 2837 Docket No. 740819-1134

10/567690

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re National Phase Patent Application of

Toshiaki SHIMADA

International Application No. PCT/JP2005/015012

International Filing Date: August 17, 2005

For: ELECTRIC CYLINDER

Description of the property
INFORMATION DISCLOSURE STATEMENT AND REQUEST FOR CONSIDERATION

United States Patent and Trademark Office Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Enclosed herewith is a Form PTO-1449 listing the art cited in the International Search Report for the above-identified application. Copies of these references should be forwarded to the Office from the International Bureau, and copies of these references are submitted herewith. It is requested that this form be used to make this art officially of record.

It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

Thomas W. Cole

Registration No. 28,290

NIXON PEABODY LLP 401 9th Street, N.W. Suite 900 Washington, D.C. 20004-2128 (202) 585-8000

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Substitute	for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Market State of the State of th			
		Filing Date	February 9, 2006			
		First Named Inventor	Toshiaki SHIMADA			
		(ערוו	Art Unit	Not Yet Assigned		
				Examiner Name	Not Yet Assigned	
Sheet		of		Attorney Docket Number	740819-1134	
				LC DATENT DOCUMENTS		

U.S. PATENT DOCUMENTS								
Examiner Initials	Cite No.'	U.S. Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where			
		Number - Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
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	+	JP 9-271154	10/14/1997	Kimura et al.		Abstract		
	<u> </u>	JP 61-24872	02/03/1986	Katayama et al.		Abstract		
		JP 9-303516	11/25/1997	Matsui et al.		Abstract		
		JP 10-70864	03/10/1998	Kimura		Abstract		
		1				<u> </u>		
		OTHER PRIOR	ART – NON PATENT I	LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.)., date, page(s), volume-issue number(s), publisher, city and/or country where published.						
-		INTERNATIONAL SEAR	CH REPORT PO	T/JP2005/015012 dated	November 22, 200	05		
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Signature /David Luo/ Considered 05/01/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not

in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901,04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Complete if Known					
Application Number	10/567,690				
Filing Date	February 9, 2006				
First Named Inventor	Toshiaki SHIMADA				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Attorney Docket Number	740819-1134				

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	r	T	U.S. PATENT DOCU	MENT	1.5			
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		US-4,061,049	12-06-1977		BEURRIER			
		US-4,730,503	03-15-1988		ROSENTHAL			
		US-2001/0029797	10-18-2001		LANGE et al.			
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			FOREIGN PATENT DO	CUMI	ENTS			
Examiner Initials*	Cite No.'	Foreign Patent Document	Publication Date MM-DD-YYYY Anni		Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant		
		Country Code ³ Number ⁴ (if kno	,	Applie	ication of Cited Document	Figures Appear	T*	
		JP 2002 227957	08-14-2002				Partial English Transla tion/AB	
		JP 10 142520	05-29-1998				Partial English Transla tion/AB	
		EP 0 251 884	01-07-1988				Partial English Transla tion/AB	
		DE 36 00 497	09-11-1986	 			FULL	
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	_ •	OTHER PRI	OR ART – NON PATENT LI	TERAT	URE DOCUMENTS	<u> </u>	•	
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		Copy of European Search Report Application No. EP 05 78 0372 dated on December 19, 2007.						
		<u></u>						

Examiner	/David Luo/	Date	05/01/2009	1
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.